《大师师师师师师师师师师师师师师师师师师师 RESTING NEW SOIL EXPERIMENTS.

States Government Using Ingenious

5年之之之之之之之也也也也也也也也也 livision of soils of the United epartment of Agriculture has ribed a new instrument now for investigating the properties This is a great time and aving apparatus, giving accurreliable results, which otheruld require months to obtain. physical properties of soils are ed by plant physiologists to he greatest importance in plant Even in the consideration natic conditions it is now genconsidered that for most plants ditions of the soil hold equal with atmospheric conditions. emperature in the soil under faconditions promotes extensive velopment; a high atmospheric under equally favorable ons favors a heavy growth of air or soil is attended with dis-

new apparatus as devised by the on of seil is an electric affair, gisters a half dozen or more vasoil properties. This method deupon the principle that the ree offered to the passage of an ic current from one carbon plate

THE ROUND TABLE OF KING ARTHUR.

The famous Round Table of King Arthur is still preserved in the great hall that was attached to the ancient castle built by William the Conqueror at Winchester in 1235, and it is one of the most interesting relics in all England. The castle of Winchester was destroyed by fire several years ago, but the hall in which Parliament sat for 400 years is still preserved in its original condition, and a secret "trough," as they call it, which was bored through the wall and enabled the king to hear what was going on in Parliament as he sat in his chamber, is still pointed out to visitors. The castle was the residence of all the early Norman kings. Richard Coeur de Lion was received there by his nobles when he returned from captivity. A.l the Edwards resided there, there Henry VIII. entertained the great emperor, Charles V. of Spain; there Queen Mary entertained Philip II. of Spain until they were married in the ancient cathedral near by, and there Sir Walter Raleigh was tried and condemned to death after his return from his fruitless explorations in South

Winchester is one of the most ancient cities of England, and was set-



mother buried in the soil depends n the amount of moisture present ween the carbon plates or elecdes. This resistance is measured. he illustration shows the instrunt as used in the field, with the carelectrodes and temperature cells place. The carbon electrodes and perature cells may be buried in soil at the beginning of the season remain undisturbed throughout year. The moisture record obed consequently deals with the riation in moisture contents in the me portion of soil. This is one of advantages of the method, since it s been shown that the moisture conats of a seemingly uniform soil may ry as much as four per cent, within area of one square rod. Conse ently, in order to obtain a consist it record of the change in water it necessary to deal with the same mple of soil, which can only be e by this electrical method.

The scale of the instrument is ar nged on a decimal plan, so that the arious soil properties can be deter-ained directly from the scale of the

It was observed by Professor What soil areas of the Connecticut Valwere practically identical as reards texture and water content with ertain areas in Florida upon which he finest of cigar wrappers are being alsed from Sumatra seed. Experients were accordingly made on one of the Connecticut areas, using the same seed and methods of cultivation and curing employed in Florida, with he most satisfactory results.

Should the more extensive experients now in progress support the earlier work, as there is every reason o expect, the result will be to increase eatly the area adapted to the growth of the finest quality of cigar wrapers known, and there will be raised n this country tobacco now imported to the amount of \$6,000,000 annually.

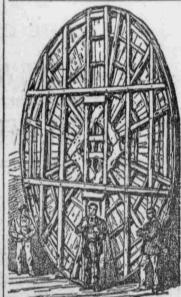
New York Herald.

England's Scottish Gardeners.

To a Scotsman a Scotsman succeeds as head gardener to the king at Sanringham. Mr. Archibald McKellar, who has held the position for many years, has been promoted to Windsor astle, and his place at His Majesty's Norfolk establishment has been filled by a fellow countryman, Mr. T. H. oke. Mr. McKellar belongs to Lichliphead, in Argyllshire, and before ming to Sandringhar, he had charge the heautiful gardens of Floors he seat of the Duke of Roxhe gardens at Sandringham ery extensive, but they are aid out. The garden at storically more interestthere in a "gardyn 1501. of Scotland, aloed and won his

tled in the year 900 B. C. Julius Caesar lived there while he was in England, and the Roman emperor Vespasian made it his capital. Five hundred years after the birth of Christ the city was captured by Cerdic, who made it the capital of the Saxon dynasty, and in 827, in the cathedral, Egbert was crowned as the first king of all England.

The round table is in an excellent state of preservation and is fastened against the wall at one end of the great room where John Harding, the chronicler, who lived from 1378 to



TOP OF KING ARTHUR'S ROUND TABLE.

1465, described it. Henry VIII, re paired it, and placed an iron band around the outside like the tire of a wheel, to keep it together. It was great curiosity in his day, when it must have been at least 600 years old. The under part of the table is a network of braces; the upper part is laid off into twenty-four sections, each bearing the name of the knight who occupied it, and you can see the names of Galahad, Launcelot and others mentioned in Tennyson's poem. The chroniclers say that the table has been hanging in its present place since the year 1283, but has been taken down on several occasions. The last time was when the castle burned. The citizens of Winchester were determined to save it, and a hundred men were engaged in removing it from the wall, but when they got it to the floor they found that it was too large to be taken cut through the doors and the fire was extinguished before they could take it

The interest on the national debt for last year cost each person forty-four cents.

sed eye nt a distance



The moon is the Indian's calendar. He reckons time by its changes, and long before the white man came to America the red man had a pretty clear idea of a month of time. The moon goes through four changes in four weeks. From full moon around to full moon again is, therefore, nearly one month, or as the Indian called it -moon. After all, the English word month means moon, and is derived from that word. So it seems the moon is responsible for the idea of month. But the Indian named his months or moons from the things that most appealed to him-the weather, the plants, the hunt, etc. Here are the names by which he knew them:

January The Cold Moon February The Snow Moon March....The Green Moon
April...The Moon of Plants
May....The Moon of Flowers June......The Hot Moon
July......The Moon of the Deer
August......The Sturgeon Moon September.....The Fruit Moon October.....The Traveling Moon November The Beaver Moon December......The Hunting Moon All Indian tribes do not have the same name for the same month, however, as it varies according to the occupation or locality of each tribe. June to some was the Strawberry Moon, August the Ripe Moon, and so on.-Chicago Record-Herald.

A Poetry Game.

Here is a delightful and interesting game for an older member of the family to play with a group of children.

Take as many sheets of paper as there are children, and the older person must then write on each sheet several stanzas of poetry, leaving a wide space between the lines.. Then cut the sheets into strips of one line of poetry each. The strips containing the first line of each stanza are given to the children, who then leave the room, while all the other strips are hidden in mysterious places about the room. When they return the children proceed to hunt for the slips necessary to complete the stanza of poetry, the first line of which they hold in their hand. On the slip which is guiding them is a number indicating the number of lines which complete the stanza, so, for instance, if the stanza is of four lines, there will be the number four on the slip given to the child, which will tell her there are three more slips to look for.
It is desirable in the beginning to

select very simple and familiar poetry. so that the game may not be too diffi-cult, and the children may have the fun of fitting their slips together when they find them, and when all are found, each one reads her stanza But this is a game that will entertain old as well as young children, and will be found a most excellent way to memorize poetry.-Home Magazine.

The Automatom Chess-Player.

Tudor Jenks, writing of "A Modern Magician" (Robert Houdin) in the St. Nicholas, has this to say of a famous trick of one of Houdin's predecessors. This was the "Automaton Chess-player" that had once set all Europe guess ing. Houdin explains this trick. The figure was a Turk, apparently small to hold a man inside, and it played chess successfully against the best players in the world-being rarely beaten. But the whole contrivance was a mere deception. The figure was who had lost both legs in battle, and was therefore able to pack himself snugly into the hollow figure or into the chest upon which it sat. the inside of the Turk's body was ex amined the officer was stowed in the box below, and he climbed up into the Turk when the box was inspected.

Thus hidden, the officer played chess against Catharine of Russia while that Empress was offering a reward for his capture. It is said the imperial cheated, whereupon the chanical Turk lost his mechanical temper and swept the chessmen from the

Afterward Catharine ordered the figure to be left in her palace, M. de Kempelen being thus forced to carry off the real player in a packing-box. The next day (probably after the Empress had tried in vain to discover the 'missing link") Kempelon explained that the chess player required his own personal attention, and thus persuaded her to let it go!"

A circumstance that helped to fool the public was the fact that the Polish officer wore artificial legs while out of the figure.

This chess automaton was once owned by Napoleon Bonaparte, came twice to this country, and in 1854 was burned in Philadelphia.

To maintain the public schools of the country costs every man, woman and child a little more than \$9.



How to eradicate mosquitoes is occupying the active brains of the scientists of the world.

Celluloid is manufactured by disolving nitrocellulose in camphor, that is to say, forming a mixture of nitrocellulose, camphor and alcohol.

In the opinion of Sir Martin Conway, the highest mountain in America is not, as heretofore supposed, Ancohuma, but Ampato, in Bolivia.

Dr. Suering Berson, a member of the Meteorological Institute, Berlin, has just completed a balloon ascent, during-which he reached a height of 33,-500 feet. The lowest recorded temperature was forty degrees below zero Fahrenheit.

The London County Council have recently placed a new float upon the River Thames, driven by liquid fuel. By means of a large burner full steam is raised in a very few minutes. The special type of burner known as the Clarkson, which is utilized, vaporizes the oil, and then mixing the with the air produces an intensely hot flame, which has the additional advantage of being almost smokeless.

Synthol" is a chemically pure substitute for absolute alcohol. be used for every purpose for which afcohol is used except for internal consumption. Being chemically pure it does not have as much odor as absolute alcohol from grain or wood. It is perfectly free from color, is non-irritant to eyes or skin and has ten to fifteen per cent. more solvent power than ordinary alcohol.

During the submerged experiments with the French submarine boat "Narval," especially in those cases where the vessel has remained under water for a prolonged length of time, crew have suffered from a peculiar sickness. It has been found impossible to account for this curious malady, and the Ministry of Marine has issued a regulation that all men in future recruited for submarine boats must undergo a rigorous medical examination. The sickness is believed to be due to constitutional causes

An English scientist some years ago suggested that, in view of the limited supply of nitrogen, unless some methods of procuring it from other source than the earth were devised, there was danger of the soil ceasing to be productive. For this purpose he proposed that experiments should made to discover some process of treating the nitrogen in the air so as to make it available for use. now announced that this has been done, and that the nitric acid thus produced is absolutely pure and available for all purposes.

Remarkable Memory Shown by Canaries.

"St. Andreasberg people know nothing of the canary of the encyclopaedia, which can imitate perfectly the nightingale, or even enunciate some words in imitation of the human voice," declares Ida Shaper Hoxie, in telling about St. Andreasberg, "The Singing Village of Germany," in The Ladies' "The birds of one Home Journal. breed, subjected to the same influences, have songs that vary with the throat muscles and vocal chords each individual. But so remarkable is the canary memory that a bird bred to a certain song, if removed from the cage in which he has heard it from his parent, when six weeks old, will later, when he himself begins to sing, give the same song though never having heard it in the intervening

A New Use of Color

We are timid novices in the use of color for exterior effects. We have had white houses and houses in colonial yellow; we have had brown houses, and we have had green blinds all these years of our lives. We have had inharmonious novelties of many But few men have considered the effects that may be produced by exterior colors when studied with reference to the surroundings-the natural scenery and adjacent buildings. Who paints his house with reference color of his neighbor's house of to its natural surroundings?-The

The Making of Perfumes.

Millions of flowers yield their petals annually for the making of favorite perfumes. The material for the choicest attar of roses is found in a pass of the Balkan Mountains known as the Valley of Roses. Here in tho blossoming season scores of square miles of blooming damask roses redden the landscape, and the air is heavy with fragrance. Thousands of peasants are employed to gather the blossoms. More than half the world's supply of attar of roses comes from this valley in central Bulgaria, the damask rose attaining its highest perfection there.

THE OLD SWIMMING POOL

BY BANDOLPH C. LEWIS. Oak-shaded and tranquil the old swim-

Oak-shaded and tranquil the old swimsming pool.
A haven of limpid delight after school,
Where knots in the trees were as stubborn as those
We sometimes found meshing malignly our clothes.
While gnats and mosquitoes played hideand-go-seek—
Vith more of the hide than is proper to speak.

In manhood to be "in the swim" is the game; We yearn to be burned by the sunshine of fame As in boyhood, when, all a-dripping we'd And play a wild season at "tag" in the While freekles were printed on cheeks and the nose,
And other locations now hidden by clothes.

—New York World.



'Pa, what is 'lese majesty?' majesty,' Jimmie, is telling the truth about kings while they are alive."-Chicago Record-Herald.

I humbly asked her for her hand, In accents hold yet calm, And nearly died when she replied: "You carry off the palm." —Philadelphia Record.

"You look nice enough to eat," he said admiringly. "Ah! now that you mention it," she replied, "I wouldn't mind eating a little ice cream."-Philadelphia Record.

"Say," snarled the conductor, "this quarter has a plug in it." "Well," snapped the flery passenger, "dld you expect to find an automobile in it?" Philadelphia Record.

"I wonder how they ever became engaged." "Their accounts differ. She says he threw himself at her feet, and he says she threw herself at his lead."—Brooklyn Life.

"You don't mean to say she has accepted him? He isn't at all her ideal!" Well, it didn't take her long to choose between a fiance in the hand and an ideal in the bush."-Puck.

Little Elmer—"Papa, what is the hand of Providence?" Professor Broadhead—"The hand of Providence, my son, is what we usually see in the misfortunes of others."-Puck.

My happiness would be complete
With what I have if I
Could know that no one else below
The sky had more than I, and no
One else stood quite as high.
—Chicago Record-Herald,

"No," said Mr. Holtite, "I don't object to the time a man takes for a reasonable vacation." "To what is it that you object, then?" "The long rest he invariably needs after he gets back." Boston Traveller.

Summer Belle-"There go two of the most disagreeable men I've met this season." Friend-"Are they? Why?" Summer Belle-"One of them stares me out of countenance, and the other won't look at me at all."-New York

Floorwalker-"Good morning. You wish to do some shopping, I pre-sume?" Bride (with hubby)-"Y-e-s." Floorwalker-"Step into the smokingroom and the boy there will give you a check for your husband."-New York Weekly.

"Boys will be boys," quoted the apologist for the youngsters. "Boys will be nuisances, you mean," retorted the man whose garden had been wrecked. "Same thing," was the reply. "Word-ing slightly changed, but the under-lying idea is the same."—Chicago Post.

Mr. Bridal (at luncheon)-"Is this the best salmon you could get?" Mrs. Bridal-"Yes, the grocer showed me several kinds, but I took this can.' fr. Bridal-"Did he say this was the best be had?" Mrs. Bridal-"No, but it had the prettiest label."-Philadelphia Press

Josh-"Abner's the greatest reader here at the Corners. An' that hain't all; he acts on what he reads." Lige-Yew bet he does! Now, last week, ter my certain knowledge, he answered two advertisements of matrimonial bureaus, sent for three packages of love powder an' a book on hypnotism, an' he also sent a dollar ter a feller in New York for seventeen ways ter git rich in three months!"-

"Your services are no longer required!" said the great metropolitan editor to the reporter who had written up a sensational elopement. "Why?' was the startled question. "Because you wrote up the elopement of the waitress and the janitor without calling one a society favorite and the other a man of leisure and a wellknown club man. Such carelessness for opportunities must be punished."-Boston Transcript.

A Bankrupt Russian Town.

When a man becomes a bankrupt he of course, sold up. But there is only one country in the world where a town can share a similar fate. This The town of Verditschew. a place of some 4000 inhabitants, was recently sold by auction to the highest It owed the Russian Govern ment and other creditors a sum of 3,919,382 roubles, and was sold because it was unable to pay.-Tit-Bits.